

# Zhen-Yu Yang

## List of Publications by Year in descending order

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80  
papers

2,213  
citations

185998

28  
h-index

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44  
g-index

81  
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81  
docs citations

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times ranked

2975  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Solution-processable silicon naphthalocyanine tetraimides as near infrared electron acceptors in organic solar cells. <i>Dyes and Pigments</i> , 2022, 197, 109846.  | 2.0 | 3         |
| 2  | High edge-nitrogen-doped porous carbon nanosheets with rapid pseudocapacitive mechanism for boosted potassium-ion storage. <i>Carbon</i> , 2022, 187, 302-309.   | 5.4 | 18        |
| 3  | Enhanced chemisorption and catalytic conversion of polysulfides via CoFe@NC nanocubes modified separator for superior Li-S batteries. <i>Chemical Engineering Journal</i> , 2022, 433, 133792.   | 6.6 | 26        |
| 4  | Superior electrocatalytic ORR performance of Melaleuca Leucadendron L barks derived hierarchical porous carbon with abundant atom-scale vacancies and multiheteroatoms. <i>Ceramics International</i> , 2022, 48, 11111-11123.                                       | 2.3 | 5         |
| 5  | In Situ Constructing a Stable Solid Electrolyte Interface by Multifunctional Electrolyte Additive to Stabilize Lithium Metal Anodes for Li-S Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 17959-17967.                                       | 4.0 | 14        |
| 6  | Spherical CoS <sub>2</sub> with high load capacity as cathode carrier material of lithium sulfur batteries for improving the volume energy density. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 14121-14133.                           | 1.1 | 2         |
| 7  | A dual-regulation strategy of B/N codoped CNT-encapsulated Ni nanoparticles as a catalytic host and separator coating promises high-performance Li-S batteries. <i>Science China Technological Sciences</i> , 2022, 65, 1567-1577.                                   | 2.0 | 2         |
| 8  | Poly(vinylidene fluoride) Modified Commercial Paper as a Separator with Enhanced Thermal Stability and Electrolyte Affinity for Lithium-ion Battery. <i>Energy and Environmental Materials</i> , 2021, 4, 664-670.   | 7.3 | 25        |
| 9  | Needle-like cobalt phosphide arrays grown on carbon fiber cloth as a binder-free electrode with enhanced lithium storage performance. <i>Chinese Chemical Letters</i> , 2021, 32, 154-157.   | 4.8 | 15        |
| 10 | Constructing a directional ion acceleration layer at WO <sub>3</sub> /ZnO heterointerface to enhance Li-ion transfer and storage. <i>Composites Part B: Engineering</i> , 2021, 205, 108511.   | 5.9 | 21        |
| 11 | 1,2,4-Triazoline-3,5-dione substituted perylene diimides as near infrared acceptors for bulk heterojunction organic solar cells. <i>Dyes and Pigments</i> , 2021, 187, 109108.   | 2.0 | 8         |
| 12 | Self-templated synthesis of hollow hierarchical porous olive-like carbon toward universal high-performance alkali (Li, Na, K)-ion storage. <i>Carbon</i> , 2021, 174, 317-324.   | 5.4 | 30        |
| 13 | Covalent grafting interface engineering to prepare highly efficient and stable polypropylene/mesoporous SiO <sub>2</sub> separator for Li-ion batteries. <i>Applied Surface Science</i> , 2021, 541, 148405.   | 3.1 | 37        |
| 14 | Ultrathin Nanosheet-Assembled Flowerlike NiSe <sub>2</sub> Catalyst Boosts Sulfur Redox Reaction Kinetics for Li-S Batteries. <i>ACS Applied Energy Materials</i> , 2021, 4, 3431-3438.  | 2.5 | 14        |
| 15 | Volumetric and viscosity behavior studies of Et <sub>4</sub> NBF <sub>4</sub> , Pr <sub>4</sub> NBF <sub>4</sub> , and Bu <sub>4</sub> NBF <sub>4</sub> in acetonitrile solutions at T = (293.15–323.15) K. <i>Journal of Molecular Liquids</i> , 2021, 330, 115630. | 2.3 | 4         |
| 16 | Co-W bimetallic carbides as sulfur host for high-performance lithium-sulfur batteries. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 16577-16588.  | 1.1 | 3         |
| 17 | Layer-by-Layer Solution-Processed Organic Solar Cells with Perylene Diimides as Acceptors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 29876-29884.  | 4.0 | 14        |
| 18 | Tunable 2D tremella-derived carbon nanosheets with enhanced pseudocapacitance behavior for ultrafast potassium-ion storage. <i>Science China Technological Sciences</i> , 2021, 64, 2047-2056.   | 2.0 | 9         |

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|----|--|-----|-----------|
| 19 | Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19053-19057.   | 7.2 | 43        |
| 20 | Silicon Naphthalocyanine Tetraimides: Cathode Interlayer Materials for Highly Efficient Organic Solar Cells. <i>Angewandte Chemie</i> , 2021, 133, 19201-19205.  | 1.6 | 2         |
| 21 | Aramid nanofiber reinforced cellulose paper for high-safety lithium-ion batteries. <i>Cellulose</i> , 2021, 28, 10579-10588.   | 2.4 | 7         |
| 22 | Areca-inspired core-shell structured MnO@C composite towards enhanced lithium-ion storage. <i>Carbon</i> , 2021, 184, 706-713.   | 5.4 | 19        |
| 23 | Surface-seeding secondary growth for CoO@Co <sub>9</sub> S <sub>8</sub> P-N heterojunction hollow nanocube encapsulated into graphene as superior anode toward lithium ion storage. <i>Chemical Engineering Journal</i> , 2021, 425, 130648.                         | 6.6 | 37        |
| 24 | A simple and recyclable molten-salt route to prepare superthin biocarbon sheets based on the high water-absorbent agaric for efficient lithium storage. <i>Carbon</i> , 2020, 157, 286-294.  | 5.4 | 23        |
| 25 | Interlayered MoS <sub>2</sub> /rGO thin film for efficient lithium storage produced by electrospray deposition and far-infrared reduction. <i>Applied Surface Science</i> , 2020, 499, 143940.   | 3.1 | 12        |
| 26 | Facile Synthesis of a "Two-in-One" Sulfur Host Featuring Metallic-Cobalt-Embedded N-Doped Carbon Nanotubes for Efficient Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 5968-5978.  | 4.0 | 52        |
| 27 | Subnaphthalocyanine triimides: potential three-dimensional solution processable acceptors for organic solar cells. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2186-2195.   | 2.7 | 12        |
| 28 | Bioinspired functionalization of MXenes (Ti <sub>3</sub> C <sub>2</sub> TX) with amino acids for efficient removal of heavy metal ions. <i>Applied Surface Science</i> , 2020, 504, 144603.  | 3.1 | 141       |
| 29 | Novel agaric-derived olive-like yolk-shell structured MnO@C composites for superior lithium storage. <i>Chemical Communications</i> , 2020, 56, 13201-13204.   | 2.2 | 17        |
| 30 | Facile construction of honeycomb-shaped porous carbon electrode materials using recyclable sodium chloride template for efficient lithium storage. <i>Science China Technological Sciences</i> , 2020, 63, 2123-2130.  | 2.0 | 3         |
| 31 | Recyclable cobalt-molybdenum bimetallic carbide modified separator boosts the polysulfide adsorption-catalysis of lithium sulfur battery. <i>Science China Materials</i> , 2020, 63, 2443-2455.  | 3.5 | 69        |
| 32 | Biomimetic surface functionalization of SiO <sub>2</sub> microspheres with catecholamine-containing poly(itaconic acid) for removal of cationic dye. <i>Surfaces and Interfaces</i> , 2020, 21, 100644.  | 1.5 | 2         |
| 33 | Wide Band-gap Two-dimension Conjugated Polymer Donors with Different Amounts of Chlorine Substitution on Alkoxyphenyl Conjugated Side Chains for Non-fullerene Polymer Solar Cells. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 797-805. | 2.0 | 15        |
| 34 | Volatilizable and cost-effective quinone-based solid additives for improving photovoltaic performance and morphological stability in non-fullerene polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 13049-13058.                              | 5.2 | 41        |
| 35 | Integrating metallic cobalt and N/B heteroatoms into porous carbon nanosheets as efficient sulfur immobilizer for lithium-sulfur batteries. <i>Carbon</i> , 2020, 167, 918-929.  | 5.4 | 43        |
| 36 | Lithium Difluorophosphate as an Effective Additive for Improving the Initial Coulombic Efficiency of a Silicon Anode. <i>ChemElectroChem</i> , 2020, 7, 3743-3751.   | 1.7 | 24        |

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|----|--|-----|-----------|
| 37 | Agaric-assisted synthesis of core-shell MnO@C microcubes as super-high- volumetric-capacity anode for lithium-ion batteries. <i>Carbon</i> , 2020, 162, 36-45.   | 5.4 | 43        |
| 38 | PDA modified commercial paper separator engineering with excellent lithiophilicity and mechanical strength for lithium metal batteries. <i>Journal of Electroanalytical Chemistry</i> , 2020, 868, 114195.                                     | 1.9 | 20        |
| 39 | Efficient Polysulfide Redox Enabled by Lattice-Distorted Ni <sub>3</sub> Fe Intermetallic Electrocatalyst-Modified Separator for Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 19572-19580.              | 4.0 | 72        |
| 40 | Two for One: A Biomass Strategy for Simultaneous Synthesis of MnO <sub>2</sub> Microcubes and Porous Carbon Microcubes for High Performance Asymmetric Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6333-6342. | 3.2 | 13        |
| 41 | Cobalt-Tungsten Bimetallic Carbide Nanoparticles as Efficient Catalytic Material for High-Performance Lithium-Sulfur Batteries. <i>ChemSusChem</i> , 2019, 12, 4866-4873.  | 3.6 | 32        |
| 42 | In-built template synthesis of hierarchical porous carbon microcubes from biomass toward electrochemical energy storage. <i>Carbon</i> , 2019, 155, 1-8.   | 5.4 | 48        |
| 43 | Unraveling the Morphology in Solution-Processed Pseudo-Bilayer Planar Heterojunction Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 26213-26221.   | 4.0 | 38        |
| 44 | Ultrafine SnO <sub>2</sub> Nanoparticles Encapsulated in High-Conductivity Graphited Carbon Nanotubes As Anodes for High Electrochemistry Performance Lithium-Ion Batteries. <i>Journal of Electronic Materials</i> , 2019, 48, 7250-7257.     | 1.0 | 5         |
| 45 | Renewable agaric-based hierarchically porous cocoon-like MnO/Carbon composites enable high-energy and high-rate Li-ion batteries. <i>Electrochimica Acta</i> , 2019, 322, 134757.  | 2.6 | 22        |
| 46 | Seleno twisted benzodiperylenediimides: facile synthesis and excellent electron acceptors for additive-free organic solar cells. <i>Chemical Communications</i> , 2019, 55, 703-706.   | 2.2 | 12        |
| 47 | Subphthalocyanine Triimides: Solution Processable Bowl-Shaped Acceptors for Bulk Heterojunction Solar Cells. <i>Organic Letters</i> , 2019, 21, 3382-3386.   | 2.4 | 38        |
| 48 | A Chemical Blowing Strategy to Fabricate Biomass-Derived Carbon Aerogels with Graphene-Like Nanosheet Structures for High-Performance Supercapacitors. <i>ChemSusChem</i> , 2019, 12, 2462-2470.   | 3.6 | 53        |
| 49 | Cut-Price Fabrication of Free-standing Porous Carbon Nanofibers Film Electrode for Lithium-ion Batteries. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1016.   | 1.3 | 3         |
| 50 | Effects of the Particle Size of BaTiO <sub>3</sub> Fillers on Fabrication and Dielectric Properties of BaTiO <sub>3</sub> /Polymer/Al Films for Capacitor Energy-Storage Application. <i>Materials</i> , 2019, 12, 439.                        | 1.3 | 28        |
| 51 | Manganese Monoxide/Biomass-Inherited Porous Carbon Nanostructure Composite Based on the High Water-Absorbent Agaric for Asymmetric Supercapacitor. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 4284-4294.                      | 3.2 | 45        |
| 52 | Rational design of intertwined carbon nanotubes threaded porous CoP@carbon nanocubes as anode with superior lithium storage. <i>Carbon</i> , 2019, 142, 269-277.   | 5.4 | 58        |
| 53 | Molten-Salt-Assisted Synthesis of Hierarchical Porous MnO@Biocarbon Composites as Promising Electrode Materials for Supercapacitors and Lithium-Ion Batteries. <i>ChemSusChem</i> , 2019, 12, 283-290.   | 3.6 | 42        |
| 54 | Highly sulphilic Ni-Fe bimetallic oxide nanoparticles anchored on carbon nanotubes enable effective immobilization and conversion of polysulfides for stable lithium-sulfur batteries. <i>Carbon</i> , 2019, 142, 32-39.                       | 5.4 | 78        |

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|----|--|-----|-----------|
| 55 | Vertical Stratification Engineering for Organic Bulk-Heterojunction Devices. ACS Nano, 2018, 12, 4440-4452.  | 7.3 | 77        |
| 56 | A tin(IV) oxides/carbon nanotubes composite with core-tubule structure as an anode material for high electrochemistry performance LIBs. RSC Advances, 2018, 8, 13186-13190.  | 1.7 | 2         |
| 57 | Utilizing egg lecithin coating to improve the electrochemical performance of regenerated lithium iron phosphate. Journal of Alloys and Compounds, 2018, 745, 164-171.  | 2.8 | 23        |
| 58 | Utilizing a graphene matrix to overcome the intrinsic limitations of red phosphorus as an anode material in lithium-ion batteries. Carbon, 2018, 127, 588-595.   | 5.4 | 50        |
| 59 | Simultaneous Electrospinning and Electrospraying: Fabrication of a Carbon Nanofibre/MnO/Reduced Graphene Oxide Thin Film as a High-Performance Anode for Lithium-Ion Batteries. ChemElectroChem, 2018, 5, 51-61.                           | 1.7 | 19        |
| 60 | Facile preparation of functionalized carbon nanotubes with tannins through mussel-inspired chemistry and their application in removal of methylene blue. Journal of Molecular Liquids, 2018, 271, 246-253.                                 | 2.3 | 55        |
| 61 | Multi-channel FeP@C octahedra anchored on reduced graphene oxide nanosheet with efficient performance for lithium-ion batteries. Carbon, 2018, 139, 477-485.   | 5.4 | 75        |
| 62 | Rapid synthesis of MoS <sub>2</sub> -PDA-Ag nanocomposites as heterogeneous catalysts and antimicrobial agents via microwave irradiation. Applied Surface Science, 2018, 459, 588-595.   | 3.1 | 170       |
| 63 | Ultrathin and Strong Electrospun Porous Fiber Separator. ACS Applied Energy Materials, 2018, 1, 4794-4803.   | 2.5 | 32        |
| 64 | Effect of substituents of twisted benzodiperylenediimides on non-fullerene solar cells. Organic Electronics, 2017, 47, 72-78.  | 1.4 | 9         |
| 65 | A facile electrospinning and electrospraying synchronization technique for preparation of high performance MnO/C@rGO composite anodes for lithium storage. RSC Advances, 2017, 7, 48294-48302.   | 1.7 | 8         |
| 66 | A corn-inspired structure design for an iron oxide fiber/reduced graphene oxide composite as a high-performance anode material for Li-ion batteries. RSC Advances, 2017, 7, 44874-44883.   | 1.7 | 7         |
| 67 | Chemical vapor deposition-assisted fabrication of a graphene-wrapped MnO/carbon nanofibers membrane as a high-rate and long-life anode for lithium ion batteries. RSC Advances, 2017, 7, 50973-50980.                                      | 1.7 | 14        |
| 68 | Intermolecular Interaction for Binary Mixtures of Propylene Carbonate with Acetonitrile, Dimethyl Carbonate, Diethyl Carbonate at Different Temperatures: Density and Viscosity. Zeitschrift Fur Physikalische Chemie, 2017, 232, 127-151. | 1.4 | 4         |
| 69 | Microwave-Assisted Solvent-Free Synthesis of Zeolitic Imidazolate Framework-67. Journal of Nanomaterials, 2016, 2016, 1-9.   | 1.5 | 10        |
| 70 | Sol-gel-assisted, fast and low-temperature synthesis of La-doped Li <sub>3</sub> V <sub>2</sub> (PO <sub>4</sub> ) <sub>3</sub> /C cathode materials for lithium-ion batteries. RSC Advances, 2015, 5, 17924-17930.                        | 1.7 | 24        |
| 71 | Homogeneous precipitation synthesis and electrochemical performance of LiFePO <sub>4</sub> /CNTs/C composites as advanced cathode materials for lithium ion batteries. RSC Advances, 2015, 5, 107293-107298.                               | 1.7 | 8         |
| 72 | Scalable and rapid Far Infrared reduction of graphene oxide for high performance lithium ion batteries. Energy Storage Materials, 2015, 1, 9-16.   | 9.5 | 33        |

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|----|--|-----|-----------|
| 73 | Spectroscopic, Conductivity and Molecular Modeling Studies of the Inclusion Complex of TNDAB with Cucurbit[7]uril in Aqueous Solution. <i>Zeitschrift Fur Physikalische Chemie</i> , 2014, 228, 939-951.   | 1.4 | 1         |
| 74 | Synthesis of $\text{LiFe}(\text{1}\hat{\sim}\text{x})\text{V}_x\text{PO}_4/\text{C}$ composite cathode materials with high performance via an aqueous solution evaporation method. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 771-777. | 1.2 | 8         |
| 75 | Synthesis and electrochemical performance characterization of Ce-doped $\text{Li}_3\text{V}_2(\text{PO}_4)_3/\text{C}$ as cathode materials for lithium-ion batteries. <i>Journal of Power Sources</i> , 2013, 243, 33-39.                             | 4.0 | 74        |
| 76 | A Novel Solvent-free Room Temperature Molten Salt Electrolyte Based on LiODFB and 2-Oxazolidinone for EDLCs. <i>Zeitschrift Fur Physikalische Chemie</i> , 2013, 227, 1723-1730.   | 1.4 | 0         |
| 77 | Fused perylenebisimide carbazole: new ladder chromophores with enhanced third-order nonlinear optical activities. <i>Chemical Communications</i> , 2011, 47, 10749.  | 2.2 | 42        |
| 78 | Conductivity and Surface Tension Study for Cucurbit[7]uril Inclusion Complex of Cetyltrimethylammonium Chloride in Aqueous Solution. <i>Journal of Dispersion Science and Technology</i> , 2010, 31, 861-865.  | 1.3 | 0         |
| 79 | Effect of $\beta$ -Cyclodextrin on the Micellization of Cetyltrimethylammonium in Aqueous Solution at High Temperature. <i>Journal of Dispersion Science and Technology</i> , 2009, 30, 1390-1394.   | 1.3 | 3         |
| 80 | Microelectrode Electrochemistry in Microemulsion Systems. <i>Analytical Letters</i> , 2006, 39, 1801-1808.   | 1.0 | 2         |